

## Cognition

No	Title of poster	Authors	Affiliation
1	<b>Processing of motion in depth and optic flow share a common brain area</b>	van Stijn S, Kohler A, Singer W, Lee HS	MPI for Brain Research
2	<b>Electrophysiology of the intention to speak</b>	Gehrig G, Wibrall M, Kell CA	Neurology, Cognitive Neuroscience
3	<b>Dopaminergic control of speech production in Parkinson`s disease - an fMRI study</b>	Arnold C, Gehrig J, von Wegner F, Kell CA	BIC and Department of Neurology
4	<b>Die neuronalen Grundlagen der Auflösung der Aufmerksamkeit</b>	Wolf K, Galeano Weber E, van den Bosch JJF, Deichmann R, Naumer M, Pfeiffer T, Fiebach CJ	Neurokognitive Psychologie
5	<b>The antagonism between cognitive flexibility and stability: an fMRI study</b>	Armbruster D, Ueltzhöffer K, Basten U, Fiebach CJ(DA and KU equal contribution)	Institute for Psychology, Cognitive Neuroscience
6	<b>P3b varies as a function of temporal predictability in language</b>	Otterbein S, Schmidt-Kassow M, Kaiser J	Institute of Medical Psychology
7	<b>Ageing and cognitive impairments affect audiovisual integration: A MEG study</b>	Chan JS, Brandl M, Matura S, Prvulovic D, Naumer MJ, Kaiser J	Institute of Medical Psychology
8	<b>Sensory modality of smoking cues modulates neural cue reactivity</b>	Yalachkov Y, Kaiser J, Görres A, Seehaus A, Naumer MJ	Institute of Medical Psychology
9	<b>Effect of cortical state on contrast responses in visual cortex of awake mouse</b>	Schölvinck ML, Saleem AB, Ayaz A, Okun M, Harris KD, Carandini M	Ernst Strüngmann Institute

## Computational neuroscience

No	Title of poster	Authors	Affiliation
10	<b>Sparse signaling: A unifying objective for synaptic long-term plasticity</b>	Krieg D, Triesch J	FIAS
11	<b>A doubly stochastic model for the quantification and classification of burstiness and regularity in single spike trains</b>	Bingmer M, Schiemann J, Roper J, Schneider G	Mathematics
12	<b>Effects of practice structure on transfer in a visual orientation discrimination task</b>	Lonini L, Scocchia L, Rothkopf C, Triesch J	FIAS
13	<b>Activity-Dependent Intracellular Chloride Accumulation and Diffusion Controls GABAA Receptor-Mediated Synaptic Transmission</b>	Jedlicka P, Deller T, Backus KH, Gutkin B	Institute of Clinical Neuroanatomy
14	<b>A Step Filter Test for Change Point Detection in Non-Stationary Poisson Processes</b>	Messer M, Kirchner M, Bingmer M, Schiemann J, Neininger R, Röper J, Schneider G	Mathematics
15	<b>Effect of synchronous multi electrode stimulation on temporal pitch discrimination in cochlear implant users</b>	Bahmer A, Langner G, Hemmert W, Baumann U	Audiological Acoustics
16	<b>Quantifying conduction delays in directed neuronal interactions using transfer entropy</b>	Wibrall M, Siebenhühner F, Priesemann V, Lindner M, Vicente R	MEG Unit, BIC
17	<b>Unifying procedural memory consolidation and structure learning in motor control</b>	Wang Q, Rothkopf CA, Triesch J	FIAS
18	<b>A power law for dendritic wiring</b>	Cuntz H, Mathy A, Häusser M	Institute of Clinical Neuroanatomy

## Diseases of the Nervous System

No	Title of poster	Authors	Affiliation
19	<b>An exciting function of K-ATP channels in dopamine midbrain neurons is potentiated in Parkinson disease</b>	Schiemann J, Klose V, Schlaudraff F, Bingmer M, Magill PJ, Zaghloul KA, Schneider G, Liss B, Roeper J	Institute for Neurophysiology
20	<b>Acute necrotizing encephalopathy due to RANBP2 mutation associated with uncoupling mitochondrial energy metabolism</b>	Vlaho S, Althaus J, Baz Bartels M, Dresel R, Gebhardt B, Porto L, Polinski B, Neilson D, Kieslich M	Department of Neuropediatrics
21	<b>Electrophysiological characterization of serotonin neurons in the dorsal raphe nucleus in the 6-OHDA mouse model of Parkinson`s disease</b>	Carlsson T, Prinz A, Selesnew L-M, Liss B, Roeper J	Institute for Neurophysiology
22	<b>Regulation of Parkinsonism-related PARKIN, PINK1, PLA2G6 and LRRK2 transcripts in stress response to restriction of trophic factors</b>	Klinkenberg M, Gispert S, Dominguez-Bautista JA, Auburger G, Jendrach M	Department of Neurology
23	<b>Severe recurrent pain sensations in the leg with priapism in spina bifida occulta</b>	Althaus J, Vlaho S, Baz Bartels M, Porto RL, Kieslich M	Department of Neuropediatrics
24	<b>Therapeutic aspects of mutant isocitrate dehydrogenase 1 R132H in oxidative stress-triggered glioma cell death</b>	Mohrenz IV, Mukrowsky A, Voigt S, Senft C, Rödel F, Seifert V, Kögel D	ZNN, Experimental Neurosurgery
25	<b>Analysis of striatal acetylcholine in PRiMA knockout mice by in vivo microdialysis</b>	Mohr F, Farar V, Krejci E, Zimmermann M, Klein J	Pharmacology for natural scientists
26	<b>Neurotransmitters and energy metabolites during pilocarpine-induced status epilepticus</b>	Hillert M, Zimmermann M, Klein J	Pharmacology for natural scientists
27	<b>A model of Spinocerebellar Ataxia Type 2 (SCA2): The (CAG)42-Sca2 knock-in mouse</b>	Damrath E, Gispert S, Nowock J, Auburger G	ZNN, Experimental Neurology
28	<b>Ataxin-2 deficiency causes changes in the expression of SRC</b>	Drost J, Nonis D, Damrath E, Auburger G	ZNN, Experimental Neurology
29	<b>Attenuation of autophagy by a knockdown of Beclin-1 enhances the sensitivity of hippocampal neurons to Amino Acid Starvation and induces an AIF-dependent Apoptosis</b>	Kim M, Rami A	Cellular and Molecular Anatomy
30	<b>Translocation of the Serine Protease Omi/HtrA2 from Mitochondria into the Cytosol Upon Seizure-Induced Hippocampal Injury</b>	Kim M, Langhagen A, Niquet J, Rami A	Cellular and Molecular Anatomy
31	<b>Interactions between mitochondrial dynamics and oxidative stress in aging and Parkinson`s disease</b>	Mai S, Klinkenberg M, Kaudeer J, Auburger G, Bereiter-Hahn J, Jendrach M	ZNN, Experimental Neurology
32	<b>ZEB1 as a regulatory factor in brain tumors and neural stem cells.</b>	Muekusch S, Glass R, Baumgarten P, Mittelbronn M, Plate KH, Momma S	Eninger Institute
33	<b>Evidence for neuroprotective effects of soluble APP cleavage products</b>	Röhner N, Kundu A, Zymny A, Baumkötter F, Kins S, Behl C, Kögel D	ZNN, Experimental Neurosurgery
34	<b>Analyzing mutations in arrhythmogenic genes in the nematode Caenorhabditis elegans by using optogenetic methods</b>	Fischer E, Essin K, Liewald JF, Erbguth K, Wabnig S, Damijonaitis A, Scheuplei V, Gottschalk A	Institute of Biochemistry and FMLS
35	<b>Reduced SK current in surviving Dopaminergic Midbrain Neurons in a mouse model of Parkinson's Disease</b>	Prinz A, Kreuzer A, Liss B, Roeper J	Institute for Neurophysiology
36	<b>Selective rescue of rostral dopaminergic substantia nigra neurons from neurodegeneration by intra-nigral proteasomal inhibition in K-ATP channel knockout mice</b>	Subramaniam M, Schieman J, Liss B, Roeper J	Institute for Neurophysiology
37	<b>The first disease gene of torticollis: Identification through exome sequencing</b>	Auburger G	ZNN, Experimental Neurology

## Normal Function and Plasticity

No	Title of poster	Authors	Affiliation
38	<b>Impact of melatonin and molecular clockwork components on the expression of thyrotropin <math>\beta</math>-chain (Tshb) and the Tsh receptor in the mouse pars tuberalis</b>	Fischer C, Ansari N, Yasuo S, Korf HW, von Gall C	Institut für Anatomie II
39	<b>Neuronal adaptation in the awake rat auditory cortex depends on spectrotemporal features of structured sound stimuli</b>	Gaese BH, Schmale K, Klein C	Cell Biology and Neuroscience
40	<b>EGFL7 regulates neural stem cell maintenance</b>	Bicker F, Jungenitz T, Glass R, Plate KH, Deller T, Schwarzacher SW, Schmidt MHH	Edinger Institute
41	<b>Dynamik der BDNF-Antwort als Funktion von Trainingsintensität und Geschlecht</b>	Schmidt-Kassow M, Schädle S, Otterbein S, Doehring A, Löttsch J, Kaiser J	Medical Psychology
42	<b>Zn<sup>2+</sup>-binding synaptic vesicle protein SV31 is sorted to microvesicles and endosomes in PC12 cells</b>	Barth J, Zimmermann H, Volknandt W	Cell Biology and Neuroscience
43	<b>Thalamo- and baso-cortical functional segregation of specialized brain networks in active and resting state: data-driven estimation and subsequent validation</b>	Naumer MJ, van den Bosch JJF, Walther A, Polony A, Hein G, Doehrmann O, Kaiser J, van de Ven VG	Institute of Medical Psychology
44	<b>Phenotypic analysis of melanopsin-expressing ganglion cells in the mouse retina</b>	Karnas D, Hicks D, Mordel J, Pévet P, Meissl H	MPI for Brain Research
45	<b>Traveling waves in the hearing organs of bushcrickets</b>	Palghat Udayashankar A, Koessl M, Nowotny M	Cell Biology and Neuroscience
46	<b>How time of day affects brain function</b>	Cordani, Stehle, Kell	BIC Department of Neurology
47	<b>Glycine receptor activation phase-shifts the circadian rhythm of electrical activity in the mouse SCN</b>	Mordel J, Karnas D, Inyushkin A, Challet E, Pévet P, Meissl H	MPI for Brain Research
48	<b>Serotonin receptors of the honeybee and the involvement of serotonin in phototactic behavior</b>	Thamm M, Blenau W	Cell Biology and Neuroscience
49	<b>Structural and functional maturation of adult newborn hippocampal granule cells</b>	Jungenitz T, Al-Qaisi O, Deller T, Schwarzacher SW	Institute of Clinical Neuroanatomy
50	<b>Morphology of CD15 and Recoverin immunoreactive cone bipolar cells in a bat retina.</b>	Müller B, Butz E	MPI for Brain Research
51	<b>Simultaneous Ca<sup>2+</sup> imaging and Channelrhodopsin-2 stimulation in C.elegans with a new red shifted genetically encoded calcium sensor R-Camp</b>	Wabnig S, Akerboom J, Looger L, Gottschalk A	FMLS
52	<b>Lipidergic messengers from the pars tuberalis</b>	Yasuo S, Bojunga J, Geisslinger G, Korf HW	Institut für Anatomie II
53	<b>Achieving single-cell expression of Channelrhodopsin-2 using the cre-lox system to analyze habituation in neural circuits that induce escape behaviours</b>	Schmitt C, Schultheis C, Liewald J, Gottschalk A	FMLS
54	<b>Cubic and quadratic distortion-product otoacoustic emissions (DPOAE) in awake and anesthetized animals of the bat species Carollia perspicillata</b>	Schlenthe D, Voß C, Kössl M	Cell Biology and Neuroscience
55	<b>Interaction between MEK-1/2 and PI3K contributes to FGF-1-mediated induction of EGR1/zif268 in hippocampal neurons</b>	Benz, Sharjari, Molotkov, Dehghani, Maronde	Institut für Anatomie III
56	<b>Reorganization of brain modular structure across sleep</b>	Tagliazucchi E, von Wegner F, Jahnke K, Morzelewski A, Borisov S, Steinmetz H, Laufs H	Brain Imaging Center
57	<b>Intercellular signaling from hematopoietic to neural cells via exosomes</b>	Oesterwind K, Keller S, Dams M, Macas J, Plate KH, Altevogt P, Momma S	Edinger Institute
58	<b>Temporal dynamics of mouse hippocampal clock gene expression supports memory formation</b>	Jilg A, Dehghani F, Stehle JH	Institut für Anatomie III
59	<b>Daytime-dependent chromatin remodelling in the mouse hippocampus depends on a circadian clock mechanism</b>	Jilg A, Slawska J, Stehle JH	Institut für Anatomie III
60	<b>Circadian dynamics of NOGO in the mouse hippocampus</b>	Jilg A, Ried C, Lautenschütz B, Maronde E, Utech L, Schwab M, Stehle JH	Institut für Anatomie III

61	<b>Does the neurite outgrowth inhibitor NOGO-A contribute to circadian plasticity?</b>	Bechstein P, Jilg A, Schwab M, Stehle JH	Institut für Anatomie III
62	<b>Beta/gamma oscillations increase neural complexity</b>	Wang P, Lima B, Singer W, Neuenschwander S, Nikolic D	MPI for Brain Research/FIAS
63	<b>Role of PER1 in melatonin synthesis in the mouse pineal gland</b>	Christ E, Korf HW, von Gall C	Institut für Anatomie II
64	<b>Repetitive magnetic stimulation induces functional and structural plasticity at excitatory postsynapses in organotypic hippocampal slice cultures</b>	Müller-Dahlhaus F, Vlachos A, Roskopp J, Ziemann U, Deller T	Klinik für Neurologie
65	<b>Ionic current modulation of mushroom body and antennal lobe neurons</b>	Himmelreich S, Grünewald B	Cell Biology and Neuroscience
66	<b>Retrieval or long-term memory after unilateral olfactory conditioning of the honeybee proboscis extension reflex</b>	Fischer J, Grünewald B	Cell Biology and Neuroscience
67	<b>Melatonin Couples Hippocampal Homeostasis to the Integrity of Diurnal Rhythms</b>	Rawashdeh O, Jilg A, Saade A, Stehle JH	Institut für Anatomie III
68	<b>Optical Generation of Spatio-Temporal Activity Patterns in the Mouse Olfactory Bulb</b>	Lehmann A, D'Errico A, Vogel M, Spors H	MPI of Biophysics
69	<b>Influence of associated proteins on function and composition of C. elegans nAChRs heterologously expressed in oocytes of X. laevis</b>	Laprell L, Gottschalk A	FMLS

## Regeneration and reorganization

No	Title of poster	Authors	Affiliation
70	<b>Nucleotides affect neurogenesis and catecholaminergic differentiation of mouse fetal midbrain-derived neural precursor cells</b>	Delic J, Zimmermann H	Cell Biology and Neuroscience
71	<b>Isoform-specific phospholipase D activation through insulin-like growth factor 1 and fetal calf serum in rat astrocytes</b>	Burkhardt U, Zimmermann M, Klein J	Pharmacology for natural scientists
72	<b>HoxB8 in noradrenergic specification and differentiation of the autonomic nervous system</b>	Huber L, Ferdin M, Stubbusch J, Rohrer H	MPI for Brain Research
73	<b>S-Nitrosylation in the spinal cord after sciatic nerve injury</b>	Scheving R, Wittig I, Steger M, Heide H, Brandt U, Tegeder I	Institute of Clinical Pharmacology
74	<b>Deficiency of hypoxia inducible factor 1 alpha in primary neurons increases acute pain sensitivity but attenuates chronic hypersensitivity in mice</b>	Kanngießer M, Lim HY, Myrczek T, Tegeder I	Institute of Clinical Pharmacology
75	<b>Pain protective and neurotrophic effects of progranulin in models of neuropathic pain in mice</b>	Lim H-Y, Albuquerque B, Häussler A, Myrczek T, Scheving R, Tegeder I	Institute of Clinical Pharmacology
76	<b>Behavioral testing of pain-associated co-morbidities in mice</b>	Albuquerque B, Tegeder I	Institute of Clinical Pharmacology
77	<b>Postnatal development of delay-sensitive neurons in the auditory cortex of the short-tailed fruit bat</b>	Voss C, Kössl M	Cell Biology and Neuroscience
78	<b>GRIP1-14-3-3 interactions control dendrite morphogenesis</b>	Geiger J, Hoyer S, Segura I, Acker-Palmer A	FMLS
79	<b>Reelin in the nervous system</b>	Senturk A, Pfennig S, Damm M, Foss F, Acker-Palmer A	FMLS
80	<b>Development of neuronal networks of social cooperation</b>	Siniatchkin, Steinmann	Clinic for Child Psychiatry
81	<b>TALE-HD proteins in adult neurogenesis</b>	Grebbin M, Heine P, Hau A-C, Agoston Z, Selleri L, Schulte D	Edinger Institut
82	<b>Infants in Control: Agency and Habituation</b>	Bolhuis J, Wang Q, Kolling T, Rothkopf C, Triesch J, Knopf M	FIAS